

April 3, 2002

Mr. James Helm  
Wabash Technologies  
P.O. Box 829  
Huntington, Indiana 46750-0829

Re: 069-15162  
Notice only change to  
Registration 069-7292-00053

Dear Mr. Helm:

Wabash Technologies was issued a Registration on February 19, 1997 for a sensor manufacturing process. A letter notifying the Office of Air Quality of a name change and the addition of units was received on December 17, 2001. Pursuant to the provisions of 326 IAC 2-6.1-6 the Registration is hereby revised as follows:

1. Wabash Magnetics has changed their name to Wabash Technologies.
2. The following units have been added:
  - (a) One (1) production line manufacturing fuel injection stators (coil parts) for engines identified as the Caterpillar line with a production capacity of 22,000 parts per day. The production line consists of:
    - (1) Injection and transfer molding;
    - (2) Welding (copper wire to terminals);
    - (3) Adhesion, and
    - (4) Cold Cleaner Degreasing (equipment only, not parts).
  - (b) One (1) regrinding room operation controlled by internal filter systems and external vacuum system. The estimated annual throughput is 3,300 pounds of nylon material. An electric motor powers the regrinder.

All other conditions of the Registration shall remain unchanged and in effect. The addition of these units does not increase the potential emissions beyond the registration level.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Alicia Rivenbark, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7902 to speak directly to Ms. Rivenbark. Questions may also be directed to Duane Van Laningham at IDEM, OAQ,

100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, press 0 and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments

ERG/AR

cc: File-Huntington County  
USA EPA, Region V  
Huntington County Health Department  
Air Compliance Section Inspector - Ryan Hillman  
Compliance Data Section - Karen Nowak  
Administrative and Development - Sara Cloe  
Technical Support and Modeling - Michele Boner

April 3, 2002

Mr. James Helm  
Wabash Technologies  
P.O. Box 829  
Huntington, Indiana 46750-0829

Re: 069-15162  
Revised Registration  
069-7292-00053

Dear Mr. Helm:

The application from Wabash Technologies, received on November 27, 1996, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following, located at 1600 Riverforks Drive East, Huntington, Indiana, is classified as registered:

- (a) Ten (10) natural gas fired space heaters with a total capacity of 2.14 million Btu per hour (MMBtu/hr).
- (b) Four (4) production lines manufacturing fuel injection stators (coil parts) for engines identified as the MICRO line with a production capacity of 1875 parts per hour, Top Feed line with a production capacity of 650 parts per hour, and Bottom Feed line with a production capacity of 250 parts per hour. Caterpillar line with a production capacity of 22,000 parts per day. The production lines consists of:
  - (1) Injection and transfer molding;
  - (2) Welding(copper wire to terminals);
  - (3) Adhesion, and
  - (4) Cold Cleaner Degreasing (equipment only, not parts), and
- (c) Fiberboard drums or cardboard gaylords are used to store plastic/nylon beads. The plastic/nylon beads are either transferred by vacuum at individual presses or via the vacuum transfer system incorporated into the regrinding operation.
- (d) One (1) Spencer vacuum system. This system is attached to several presses and one test station to draw off small particulate matter. The particulate matter is collected by a baghouse.
- (e) One (1) regrinding room operation controlled by internal filter systems and internal vacuum system. The estimated annual throughput is 3,300 pounds of nylon material. An electric motor powers the regrinder.

The following conditions shall be applicable:

1. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- 2. Pursuant to 326 IAC 2-1 (Permit Review), the allowable particulate matter (PM) emissions from the transfer of plastic/nylon beads are limited to one (1) pound per hour. This limitation will not exceed the registration level limit of 25 pounds per day and will also satisfy the requirements of 326 IAC 6-3-2 (Particulate Emissions Limitations for Process Operations).
- 3. Pursuant to 326 IAC 6-3-2 (Particulate Emissions Limitations for Process Operations) , the baghouse shall be in operation at all times when the transfer of plastic beads is in operation.
  - (a) The permittee shall take readings of the total static pressure drop across the baghouses, at least (specify schedule such as once per week). Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 0.9 and 2.0 inches of water. The Preventative Maintenance Plan for these baghouses shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of this range for any one reading.
  - (b) The instrument used for determining the pressure shall be subject to approval by IDEM, OAQ, and shall be calibrated at least one every six (6) months.
  - (c) The gauge employed to take the pressure drop across the baghouses or any part of the facility shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within  $\pm 2\%$  of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.
  - (d) An inspection shall be performed each calendar quarter of all the baghouses. Defective bags shall be replaced. A record shall be kept of the results of the inspection and the number of bags replaced.
  - (e) In the event that a bag's failure has been observed:
    - (1) The affected compartments will be shut down immediately until the failed units have been replaced.
    - (2) Based upon the findings of the inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.
- 4. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner or operator shall:
  - (a) Equip the cleaner with a cover;
  - (b) Equip the cleaner with a facility for draining cleaned parts;

- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts of at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that is greater than twenty percent (20%) of the waste solvent (by weight ) can evaporate into the atmosphere.

This registration is a revised registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Branch  
Office of Air Quality  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, IN 46206-6015**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

ERG/AR

cc: File - Huntington County  
Huntington County Health Department  
Air Compliance - Ryan Hillman  
Permit Tracking - Sara Cloe  
Technical Support and Modeling - Michele Boner  
Compliance Branch - Karen Nowak

<b>Registration Annual Notification</b>
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This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

<b>Company Name:</b>	<b>Wabash Technologies</b>
<b>Address:</b>	<b>1600 Riverfolks Drive East</b>
<b>City:</b>	<b>Huntington, Indiana 46750</b>
<b>Authorized individual:</b>	<b>James Helm</b>
<b>Phone #:</b>	<b>(219) 355-4100</b>
<b>Registration #:</b>	<b>069-7292-00053</b>

I hereby certify that Wabash Technologies is still in operation and is in compliance with the requirements of Registration 069-7292-00053.

<b>Name (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

Wabash Technologies  
Riverfork Drive Facility  
Potential-to-Emit (PTE) for Modifications

Modifications	PTE PM (tpy)	PTE VOC (tpy)	PTE CO (tpy)	PTE NO <sub>x</sub> (tpy)	PTE SO <sub>2</sub> (tpy)	PTE Combined HAP (tpy)
1 Sensor Production Lines	0	0.83	0	0	0	0.12
1 Sensor Production Lines	0	0.83	0	0	0	0.12
1 Sensor Production Lines	0	0.83	0	0	0	0.12
1 Grinding Operation	0.0005	0	0	0	0	0
1 Maxi-Blast Mold Cleaning System	4.13	0	0	0	0	0

**ACTUAL EMISSIONS w/ CONTROLS**

Pollutant	Production Lines (tpy)	Combustion Units (tpy)	Maxi-Blast Mold Cleaning Systems (tpy)	Grinding Room (tpy)	Totals (tpy)	Totals (lbs/day)
PM		0.003	0.413	0.0003	0.42	2.28
VOC	3.98	0.001			3.99	21.84
CO		0.006			0.01	0.03
NO <sub>x</sub>		0.028			0.03	0.15
SO <sub>2</sub>		0.0002			0.0002	0.001
Combined HAP	0.41			0.079	0.49	2.68

**POTENTIAL EMISSIONS**

Pollutant	Production Lines (tpy)	Combustion Units (tpy)	Maxi-Blast Mold Cleaning Systems (tpy)	Grinding Room (tpy)	Totals (tpy)	Totals (lbs/day)
PM		0.11	4.13	0.0005	4.25	23.26
VOC	6.99	0.05			7.04	38.59
CO		0.20			0.20	1.08
NO <sub>x</sub>		0.94			0.94	5.14
SO <sub>2</sub>		0.01			0.01	0.03
Combined HAP	0.72			0.139	0.86	4.71



CS MSDS #	Internal Part #	Product Name	Manufacturer	Product Category	Storage Location	2000 Usage (lbs)	2000 Usage (gal)	Sp. Gr.	Density (lb/gal)
6 Production Lines + Misc. Production									
	15-01001-				Raw Materials				
	88 0002/0010	1544 Rosin Soldering Flux	Kester Solder	Soldering Flux	Storage	77	10	0.93	7.73
	97 15-02002-0002	IPA - Anhydrous	Exxon Chemical	Solvent	Warehouse	5162		0.79	6.59
	103 15-02002-0017	Mineral Spirits 66/3 (Stoddard Solvent)	Union Oil Company of CA	Solvent	Warehouse	354	55	0.77	6.44
	108 15-02002-0038	SP-731 Solvent Blend	Chemical Solvents	Solvent	Warehouse	0	0	1.00	8.35
NEW		Trim C115	Master Chemical	Grinding Lubricant / Coolant		4819	550	1.05	8.76
	118 15-02002-0071	K-411-1 Solvent Based Release Coating	Star Technology	Coating	Warehouse	0	0		6.00
	173 15-02002-0063	Cimarron A.W. 68 Hydraulic Oil	Austin Petroleum	Lubricant	Warehouse	1997	275	0.87	7.26
	180	Chem-Crest 275	Crest Ultrasonics	Solvent	Tool Room	570	50	1.37	11.40
	368	Solvent 140-66 Parts Washer	Ashtand Chemical	Solvent	Maintenance	791	120	0.79	6.59
	383	Silicone Emulsion SWS235	Wacker Silicones	Emulsion	Top Feed Raw Materials Storage	0	0	0.99	8.26
	398 12-00110-0039	B-255-1 Star Epoxy Adhesive Coating	Star Technology	Coating		1225	175		7.00
	409	2415 Water Treatment	Technical Water Treatment	Coolant	Caterpillar	3534	385	1.10	9.18
	439 15-02002-0055	Plurafac B-26 Surfactant	Van Waters & Rogers	Surfactant	Warehouse	0	0	1.02	8.51
	531	American Industrial Oil No. 32	Amoco Oil	Oil	Warehouse	0	0	0.88	7.34
Grinding Room									
	393 12-00003-0045	Blue PPS - Polyphenylene Sulfide Masterbatch (88-BU-1)	M.A. Hanna Color	Blue Pellets, Color Additive into presses	Grinding Room	755			0.00
TOTAL									

			VOCs				HAPs (maximum wt. %'s)		Actual HAP emissions (tpy)		
CS MSDS #	Internal Part #	Product Name	VOC wt%	Flash Off %	Actual VOC Emiss (tpy)	Potential VOC Emiss (tpy)	Cobalt Comp	MEK	Cobalt Comp	MEK	Combined HAP
	6 Production Lines + Misc. Production										
	15-01001-										
	88 0002/0010	1544 Rosin Soldering Flux	50%	100%	0.019	0.034			0.000	0.000	0.000
	97 15-02002-0002	IPA - Anhydrous	100%	100%	2.581	4.529			0.000	0.000	0.000
	103 15-02002-0017	Mineral Spirits 66/3 (Stoddard Solvent)	100%	100%	0.177	0.311			0.000	0.000	0.000
	108 15-02002-0038	SP-731 Solvent Blend	100%	100%	0.000	0.000			0.000	0.000	0.000
	NEW	Trim C115	21%	100%	0.494	0.867			0.000	0.000	0.000
	118 15-02002-0071	K-411-1 Solvent Based Release Coating	97%	100%	0.000	0.000			0.000	0.000	0.000
	173 15-02002-0063	Cimarron A.W. 68 Hydraulic Oil	1%	100%	0.010	0.018			0.000	0.000	0.000
	180	Chem-Crest 275	0.5%	100%	0.001	0.003			0.000	0.000	0.000
	368	Solvent 140-66 Parts Washer	100%	100%	0.396	0.694			0.000	0.000	0.000
	383	Silicone Emulsion SWS235	0.2%	100%	0.000	0.000			0.000	0.000	0.000
	398 12-00110-0039	B-255-1 Star Epoxy Adhesive Coating	50%	100%	0.306	0.537		67%	0.000	0.410	0.410
	409	2415 Water Treatment	0%	100%	0.000	0.000			0.000	0.000	0.000
	439 15-02002-0055	Plurafac B-26 Surfactant	100%	100%	0.000	0.000			0.000	0.000	0.000
	531	American Industrial Oil No. 32	99%	100%	0.000	0.000			0.000	0.000	0.000
			TOTALS		3.98	6.99			0.000	0.410	0.410
	Grinding Room										
		Blue PPS - Polyphenylene Sulfide Masterbatch (88-BU-1)	0%	100%	0.000	0.000	21%		0.079	0.000	0.079
393	12-00003-0045		TOTALS		0.000	0.000			0.079	0.000	0.079

TOTAL

3.98 6.99

0.079 0.410 0.490



			PTE HAP (tpy)		
CS MSDS #	Internal Part #	Product Name	Cobalt Comp	MEK	Combined HAP
	6 Production Lines + Misc. Production				
	15-01001-				
88	0002/0010	1544 Rosin Soldering Flux	0.000	0.000	0.000
97	15-02002-0002	IPA - Anhydrous	0.000	0.000	0.000
103	15-02002-0017	Mineral Spirits 66/3 (Stoddard Solvent)	0.000	0.000	0.000
108	15-02002-0038	SP-731 Solvent Blend	0.000	0.000	0.000
NEW		Trim C115	0.000	0.000	0.000
118	15-02002-0071	K-411-T Solvent Based Release Coating	0.000	0.000	0.000
173	15-02002-0063	Cimarron A.W. 68 Hydraulic Oil	0.000	0.000	0.000
180		Chem-Crest 275	0.000	0.000	0.000
368		Solvent 140-66 Parts Washer	0.000	0.000	0.000
383		Silicone Emulsion SWS235	0.000	0.000	0.000
398	12-00110-0039	B-255-T Star Epoxy Adhesive Coating	0.000	0.720	0.720
409		2415 Water Treatment	0.000	0.000	0.000
439	15-02002-0055	Plurafac B-26 Surfactant	0.000	0.000	0.000
531		American Industrial Oil No. 32	0.000	0.000	0.000
			0.000	0.720	0.720
	Grinding Room				
		Blue PPS - Polyphenylene			
393	12-00003-0045	Sulfide Masterbatch (88-BU-1)	0.139	0.000	0.139
			0.139	0.000	0.139
TOTAL			0.139	0.720	0.859

## Total Emissions from All Combustion Units

## Natural Gas Fired Combustion Units

All units are uncontrolled, no low NOx burners, no flue gas recirculations.

Maximum BTU rating

2.14 MM BTU/hr

Gas BTU rating

1000 BTU/scf

Potential Gas Usage

18,746,400 cubic feet

Actual Gas Usage

554,100 cubic feet

Input Needed

Input can be changed

do this only if you have in therms and need cubic ft.

Therms

0 Cubic Ft

0 put in other B8

## Large Boilers &gt; 100 MMBTU/hr

PM

CO

NOx

SO2

VOC (no methane)

Potential (lb/yr)

0

0

0

0

0

Potential (tons/yr)

0

0

0

0

0

Actual (lb/yr)

0

0

0

0

0

Actual (tons/year)

0

0

0

0

0

## Small Industrial Boilers 10-100

PM

CO

NOx

SO2

VOC (no methane)

Potential (lb/yr)

0

0

0

0

0

Potential (tons/yr)

0

0

0

0

0

Actual (lb/yr)

0

0

0

0

0

Actual (tons/year)

0

0

0

0

0

## Commercial Boilers

PM

CO

NOx

SO2

VOC (no methane)

Potential (lb/yr)

224.9568

393.6744

1874.64

11.24784

98.98099

Potential (tons/yr)

0.112478

0.196837

0.93732

0.005624

0.04949

Actual (lb/yr)

6.6492

11.6361

55.41

0.33246

2.925648

Actual (tons/year)

0.003325

0.005818

0.027705

0.000166

0.001463

## Residential Furnaces &lt;0.3 MMBtu/hr

PM

CO

NOx

SO2

VOC (no methane)

Potential (lb/yr)

0

0

0

0

0

Potential (tons/yr)

0

0

0

0

0

Actual (lb/yr)

0

0

0

0

0

Actual (tons/year)

0

0

0

0

0

Wabash Technologies  
Riverfork Drive Facility  
Maxi-Blast Mold Cleaning System

1 Maxi-Blast Mold Cleaning System that is enclosed and operated pneumatically.

** Emission Factor (lb PM/lb abrasive)	0.01
** Flow Rate (lb/hr)	94.348
Fraction of Time of Wet Blasting	0%
Number of Nozzles	1
Uncontrolled PM Emissions (lb/hr)	0.94
Uncontrolled PM Emissions (ton/yr)	4.13
Control Efficiency	90%
Controlled PM Emissions (ton/yr)	0.41

\*\* Taken from the TSD of the Other Sources Registration (Registration # 069-7272-00054)

Nylon regrind operation controlled by an internal filter system and external vacuum system.

Estimated Regrind Material in 2000 (lbs)	3300
Estimated Regrind Material in 2000 (tons)	1.65
** Emission Factor (lb PM emitted/tons processed)	0.35
Actual PM (lbs/yr)	0.58
Actual PM (tpy)	0.0003
PTE PM (tpy)	0.0005

\*\* From Fire, SCC# 3-07-008-02



Wabash Technologies  
Riverfork Drive Facility  
Typical Hours of Operation and Maximum Throughputs

Process	Average Throughput	Actual Operating Hours	Maximum Operating Hours	Maximum Throughput	Units of Throughput
CAT Line	3,828,266	4992	8760	6,717,871	units
Siemens Diesel Line	1,970	4992	8760	3,457	units
Top Feed Line	3,870,819	4992	8760	6,792,543	units
Bottom Feed Line	247,449	4992	8760	434,225	units
SCPI (MICRO) Line	6,629,040	4992	8760	11,632,690	units
CPI Line	161,184	4992	8760	282,847	units
Misc. Production Line (Delphi, Pacer Ram, Superior, Zenith, Engineering Build)	208,092	4992	8760	365,161	units
Maxi-Blast	300	4992	8760	526	lb beads purchased
Grinding Room	3,300	4992	8760	5,791	lb of regrind material